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Papers read before the Society from March 1898 to January 1899.

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Mar. 11 The Wilsonian theory and Mr. Howlett's drawings of Sun-spots. Rev. A. L. Cortie.

List No. 6 of nebulæ discovered at the Lowe Observatory, Echo Mountain, California. Lewis Swift.

The concave grating for stellar spectroscopy. C. L. Poor.

On a convenient method of adjusting a polar axis to the diurnal motion. D. P. Todd.

Nebulæ discovered at the Royal Observatory, Cape of Good Hope. Communicated by H.M. Astronomer.

List No. 7 of nebulæ discovered at the Lowe Observatory, Echo Mountain, California. Lewis Swift.

Long-enduring spots on *Jupiter*. A. Stanley Williams.

Notes on the rotation period of *Venus*. E. M. Antoniadi.

Equatorial Comparisons of *Neptune* with 114 (*o*) *Tauri*, 1897 December. John Tebbutt.

A remarkable object in *Perseus*. Rev. T. E. Espin.

On the "two method" personal equation. W. W. Bryant.

The spectrum of *o Ceti*, as photographed at Stonyhurst College Observatory. Rev. W. Sidgreaves.

The effect of latitude variation on the ecliptic investigation. W. G. Thackeray.

Mean areas and heliographic latitudes of Sun-spots in the year 1896, deduced from photographs taken at the Royal Observatory, Greenwich, at Dehra Dûn (India), and in Mauritius. Communicated by the Astronomer Royal.

Ephemeris for physical observations of the Moon, 1898 April 16 to 1899 January 1. A. C. D. Crommelin.

Note on Dr. Gill's paper on the effect of chromatic dispersion of the atmosphere on the parallaxes of *α Centauri* and *β Orionis*. A. A. Rambaut.

Note on the Zodiacal Light. E. W. Maunder.

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April 6. List No. 8 of nebulæ discovered at the Lowe Observatory, Echo Mountain, California. Lewis Swift.

Note on some results obtained with a small prismatic camera at the eclipse camp at Talni. John Evershed.

Observations of nebulæ. H. A. Howe.

A revolver eye-piece electrically warmed. A. F. Lindemann.

Second attempt to photograph the *Leonid* meteor swarm. Isaac Roberts.

Comparison of the forthcoming Greenwich Ten-year Catalogue for 1890 with certain Fundamental Catalogues. Communicated by the Astronomer Royal.

Observations of the companions of *Sirius* and *Procyon*, made at the Royal Observatory, Greenwich. Communicated by the Astronomer Royal.

Times of transits of the zero meridians of the two adopted systems across the centre of the illuminated disc of *Jupiter*. A. C. D. Crommelin.

May 13. Elongations of *Jupiter's* fifth satellite, 1898 April 10 to June 19. A. C. D. Crommelin.

Note on the Zodiacal Light. William Anderson.

Micrometrical measures of the double stars β 883, *Sirius*, and *Procyon*. T. J. J. See.

The relative motion of the components of γ *Leonis*. S. W. Burnham.

Vanadium in the spectrum (C to D) of Sun-spots. Rev. A. L. Cortie.

A determination of the proper motions of the Greenwich clock stars from Greenwich transit-circle observations, 1854–96. W. G. Thackeray.

Observations of Comet *b* 1898 (*Perrine*) made at the Royal Observatory, Greenwich. Communicated by the Astronomer Royal.

The markings of *Venus*. A. E. Douglass.

Photographs of the nebulæ in the *Pleiades*, of stars in the surrounding regions, and of spurious nebulosity. Isaac Roberts.

June 10. Observations of the phenomena of *Jupiter's* satellites with the 8-inch equatorial of the Windsor Observatory, New South Wales, in the year 1897. John Tebbutt.

Occultations of *Ceres* and of *Venus* observed at the Cambridge Observatory. Communicated by Sir R. S. Ball.

Reply to Dr. Rambaut's note of the effect of chromatic dispersion. David Gill.

Right ascensions and declinations of eight stars in the constellation *Aquarius*; and their probable proper motions. C. J. Merfield.

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Further researches on the orbit of γ *Lupi*=*h* 4786. T. J. J. See.

On the actinic qualities of light as affected by different conditions of atmosphere. Rev. J. M. Bacon.

A second catalogue of the stars of the IV. type. Rev. T. E. Espin.

On the attempts to counteract by instrumental adjustments certain effects of refraction in stellar photography. A. R. Hinks.

Note concerning diffraction phenomena. H. F. Newall.

A diagram showing the conditions under which observations for the determination of stellar parallax are to be made. A. R. Hinks.

Observations of Comet *b* 1898 (*Perrine*) made at the Royal Observatory, Greenwich. Communicated by the Astronomer Royal.

Nov. 11. Note on the level errors of the Cape transit circle. W. H. Finlay.

Ephemeris for physical observations of *Mars*, 1898. A. C. D. Crommelin.

The sidereal system revised in 1898. Maxwell Hall.

Observations of nebulæ. H. A. Howe.

List of nebulæ discovered at the Chamberlin Observatory, University Park, Colorado. H. A. Howe.

Observations of comet 1898 (Coddington, June 11) made at Sydney Observatory. Communicated by H. C. Russell.

Observations of the variable stars *U Orionis* and *T Centauri*. Col. E. E. Markwick.

Observations of *Jupiter* and *Jupiter's* satellites made at Mr. Crossley's Observatory, Bermerside, Halifax, during the opposition 1897–98. J. Gledhill.

Observations of *Jupiter* in 1898. W. F. Denning.

The great red spot on *Jupiter*. W. F. Denning.

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Remarks on Dr. Gill's paper in the *Monthly Notices* for 1898 June. A. A. Rambaut.

Note on Pogson's manuscripts relating to his proposed atlas of variable stars. Rev. J. G. Hagen.

On the south temperate current of *Jupiter*. A. Stanley Williams.

Nomenclature of the chief surface currents of *Jupiter*. A. Stanley Williams.

On a new instrument for measuring astrophotographic plates. David Gill.

On a method of obtaining perfectly circular dots unaffected by phase, and their employment for determining the pivot errors of the Cape transit circle. David Gill.

On some photographs of the Moon, comets, meteors, and the Milky Way; and on the exterior nebulosities of the *Pleiades*. E. E. Barnard.

Mean areas and heliographic latitudes of Sun-spots in the year 1897, deduced from photographs taken at the Royal Observatory, Greenwich, at Dehra Dûn (India), and in Mauritius. Communicated by the Astronomer Royal.

Observations of planet (433) (1898 DQ) with the 30-inch reflector of the Thompson equatorial at the Royal Observatory, Greenwich. Communicated by the Astronomer Royal.

The division errors of the Greenwich transit circle. F. W. Dyson and W. G. Thackeray.

Observations of Comet *i* 1898 (*Brooks*) made at the Royal Observatory, Greenwich. Communicated by the Astronomer Royal.

Approximate ephemeris of the part of the *Leonid* swarm through which the Earth passed in 1866. G. Johnstone Stoney.

Ephemeris for physical observations of *Jupiter*, 1898–99. A. C. D. Crommelin.

Dec. 9. Observations of the *Leonids*, 1898 November, made at the Cambridge Observatory. A. R. Hinks.

Note on the effect of wear on the errors of micrometer screws. David Gill.

Observations of comet Coddington (*c* 1898). John Tebbutt.

On a probable instance of periodically recurrent disturbance on the surface of *Jupiter*. W. F. Denning.

The extra-equatorial currents of *Jupiter* during the apparition of 1897–98. Rev. T. E. R. Phillips.

Discovery of comet *Brooks* 1898. W. R. Brooks.

The November meteors, observed at the Royal Observatory, Edinburgh. Communicated by the Astronomer Royal for Scotland.

Cometary observations at the Liverpool Observatory, 1897–98. W. E. Plummer.

Ephemeris for physical observations of the Moon for the first half of 1899. A. C. D. Crommelin.

Observations of Comet *i* 1898 (*Brooks*) made at the Royal Observatory, Greenwich. Communicated by the Astronomer Royal.

Observations of the *Leonid* meteors, 1898 November. Communicated by G. Johnstone Stoney.

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Jan. 13. Observations of meteors made at the Royal Observatory, Cape of Good Hope, 1898 November 13 and 14. Communicated by H.M. Astronomer.

Observations of planet (433) (DQ), made with the 30-inch reflector of the Thompson equatorial at the Royal Observatory, Greenwich. Communicated by the Astronomer Royal.

Observations of the *Leonids*, 1898 November, made at Perth Observatory, Western Australia. Communicated by W. E. Cooke.

Preliminary description of the new photographic equatorial of the Cambridge Observatory. Sir R. S. Ball.

On the value of possible observations from free balloons. Rev. J. M. Bacon.

Note on Dr. Gill's paper "On a new instrument for measuring astrophotographic plates." H. H. Turner.

Note on Mr. Espin's object in *Perseus*. C. D. Perrine.

Eclipse of the Moon, 1898 December 27. Rev. W. Sidgreaves.

Note on a preliminary and unsuccessful attempt to photograph the corona without an eclipse. Rev. C. D. P. Davies.

The great Sun-spot of 1898 September. W. H. Robinson.

Occultations of stars during the lunar eclipse of 1898 December 27, observed at the Liverpool Observatory. W. E. Plummer.

Observations of occultations of stars and planets by the Moon and of phenomena of *Jupiter's* satellites, made at the Royal Observatory, Greenwich, in the year 1898. Communicated by the Astronomer Royal.

A suggestion for the explanation of stationary radiant points of meteors. H. H. Turner.

Remarks on Professor Turner's paper, together with another suggested explanation of stationary radiant points of meteors. A. S. Herschel.

Observations of the brightness of α *Orionis*, 1895–98. T. W. Backhouse.

Note on photographs of the satellite of *Neptune* taken with the 30-inch reflector and the 26-inch refractor of the Thompson equatorial at the Royal Observatory, Greenwich. Communicated by the Astronomer Royal.

Observations of *Eros* (1898 DQ) made with the 30-inch reflector of the Thompson equatorial at the Royal Observatory, Greenwich. Communicated by the Astronomer Royal.

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